

~~TOP SECRET~~TS-142996
(Attachment A)**ATTACHMENT "A"**

An upper level research unit equipped with instrumented aircraft having the capability of achieving an altitude of 35 to 40,000 feet would secure highly valuable information about the following items:

- (1) Turbulence
 - (a) Associated with jet stream
 - (b) Tropopause
 - (c) Lower stratosphere
- (2) Detailed temperature structure
 - (a) Tropopause
 - (b) Lower stratosphere
- (3) Wind structure
- (4) Measurement of ozone concentration at various altitudes
- (5) Diffusion of gases in the stratosphere
- (6) Rate and method of interchange of air between the stratosphere and troposphere
- (7) Water vapor content of the lower stratosphere
- (8) Vertical motion in the upper troposphere and lower stratosphere
- (9) Visibility at tropopause
- (10) Chemical analysis of air samples in layers of restricted visibility at high altitudes
- (11) Air trajectories

The information listed above could be secured at many locations. However, maximum results would be achieved by approximately simultaneous observations made at various areas over the Northern Hemisphere.

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